

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P530963

Luminaire Tested: **GALN-SA6B-727-U-SL3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530963
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-19)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA6B-727-U-SL3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16503 lumens
Efficiency: N/A
Efficacy: 67.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

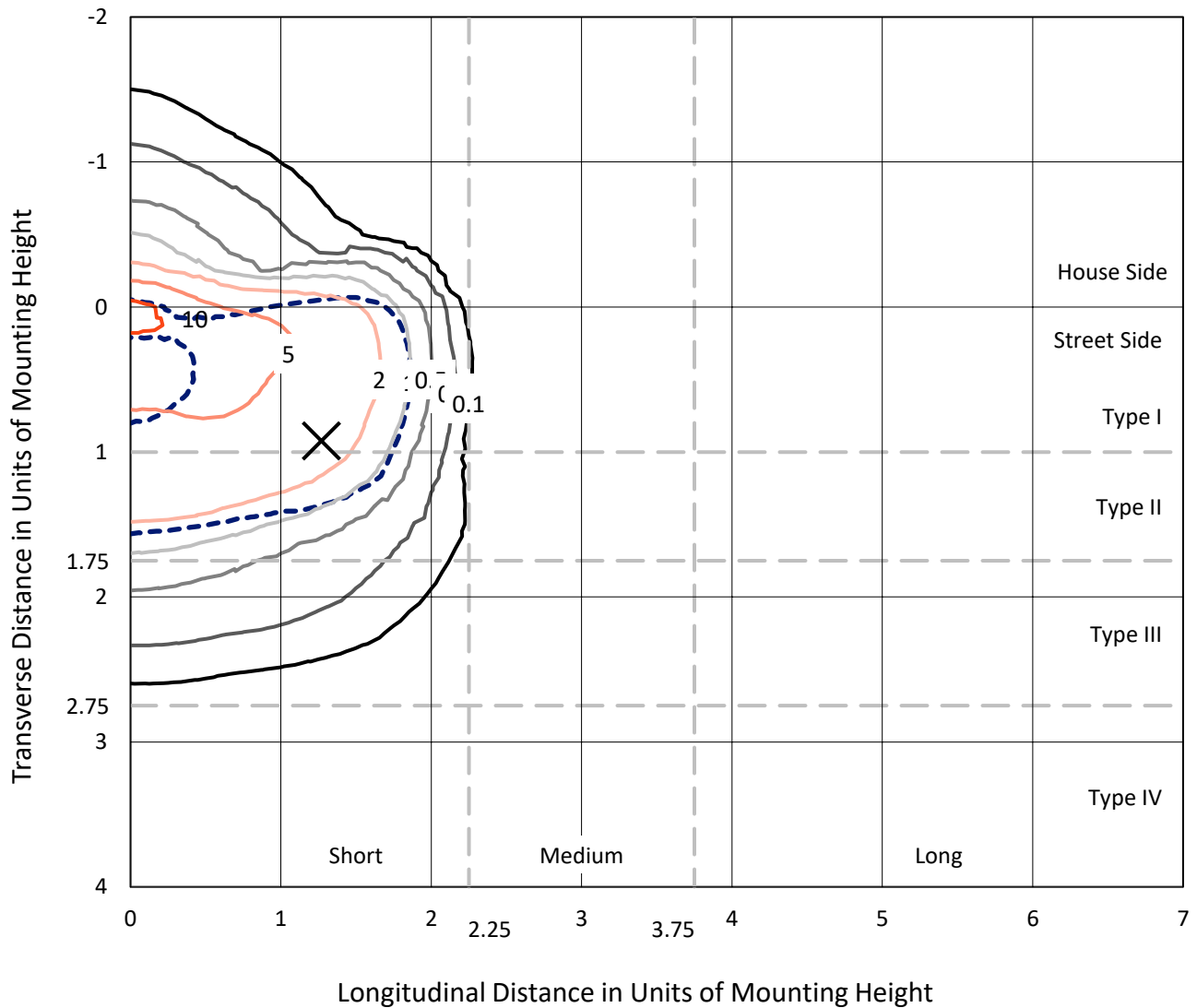
Input Watts (W): 243
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

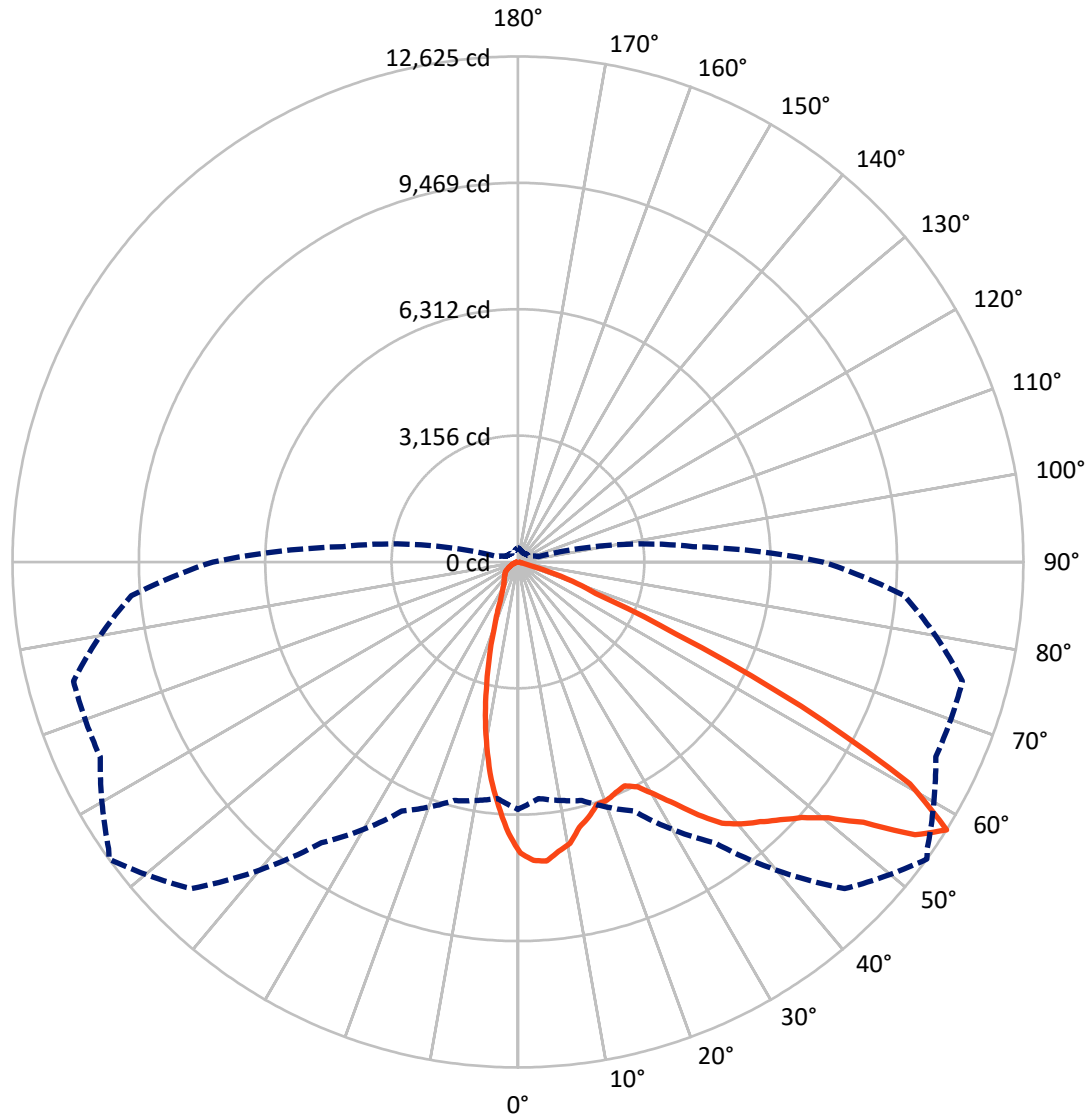
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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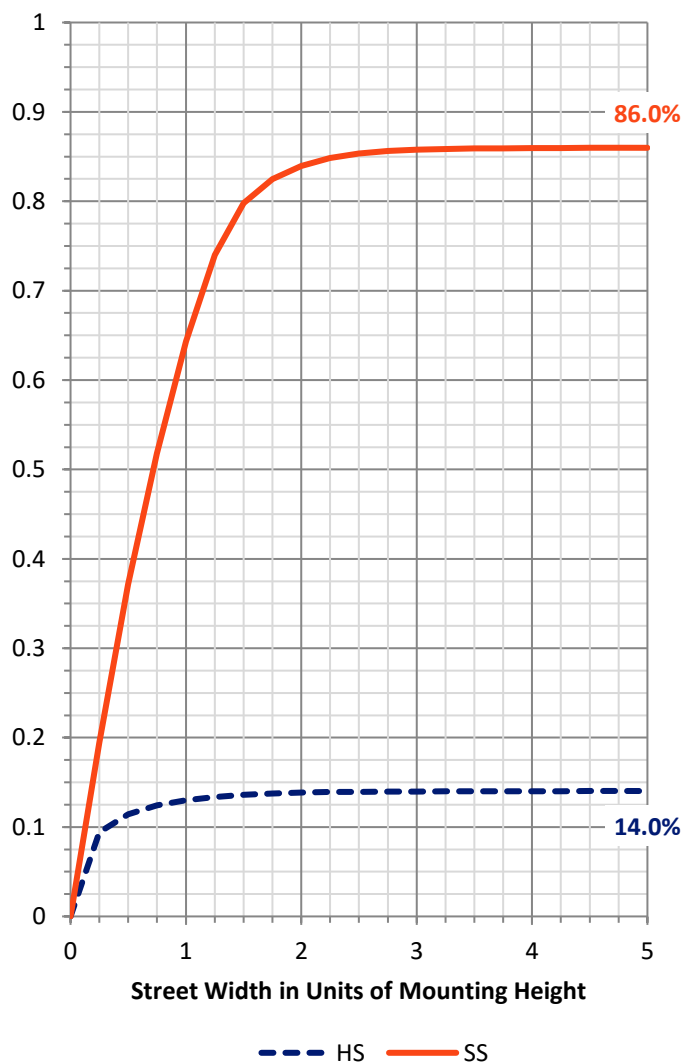
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2332.2	0.0	2332.2
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	14170.8	0.0	14170.8
	% Fixture	85.9	0.0	85.9
Total	Lumens	16503.0	0.0	16503.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	608.4	3.7
10°-20°	1298.8	7.9
20°-30°	1721.2	10.4
30°-40°	2501.4	15.2
40°-50°	3709.2	22.5
50°-60°	4638.2	28.1
60°-70°	1829.6	11.1
70°-80°	182.2	1.1
80°-90°	14.2	0.1
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	16503.0	100.0
0°-180°	16503.0	100.0

Coefficient of Utilization



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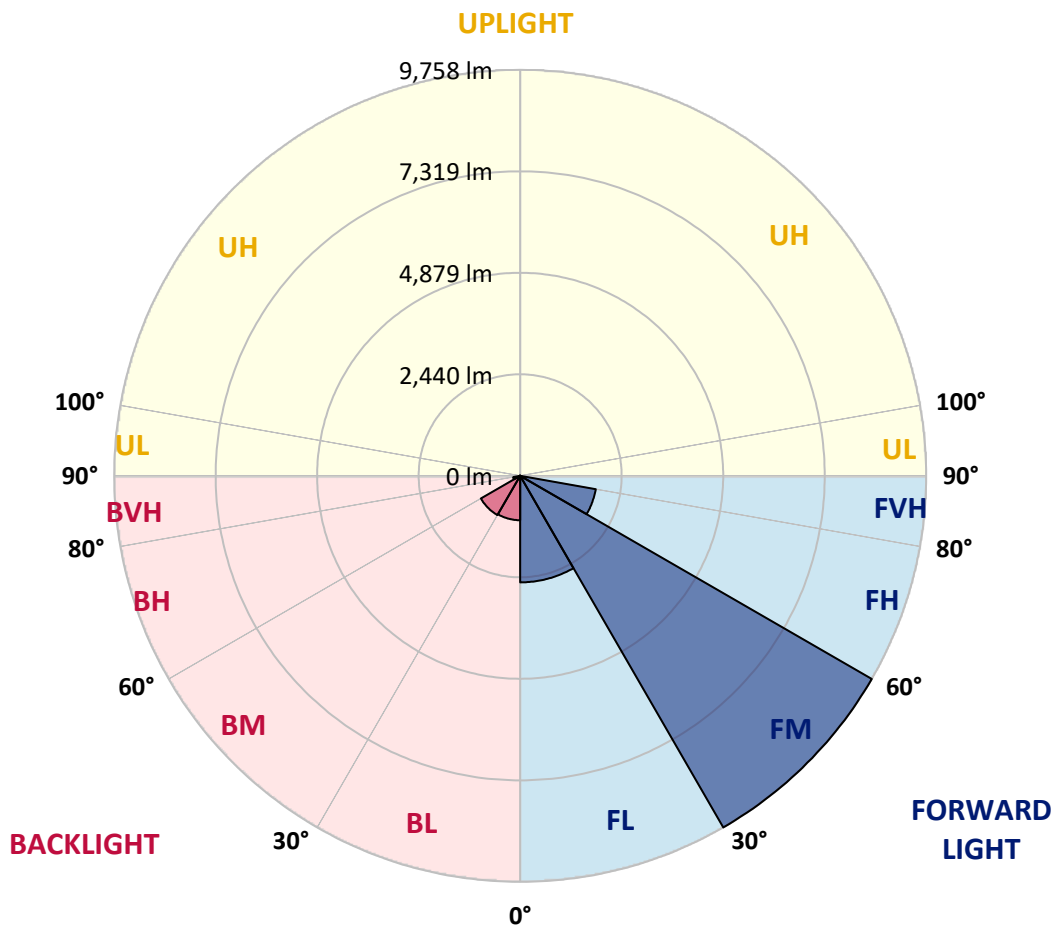
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2561.7	15.5			
FM (30°-60°)	9758.2	59.1			
FH (60°-80°)	1844.5	11.2			G2/5000
FVH (80°-90°)	6.4	0.0			G0/10
BL (0°-30°)	1066.6	6.5	B3/2500		
BM (30°-60°)	1090.6	6.6	B2/2500		
BH (60°-80°)	167.2	1.0	B1/500		G1/500
BVH (80°-90°)	7.7	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	7269.8	7269.8	7269.8	7269.8	7269.8	7269.8	7269.8	7269.8	7269.8	7269.8	7269.8
2.5°	7693.3	7613.5	7619.6	7592.0	7555.2	7582.8	7463.1	7490.7	7487.7	7325.0	7217.6
5°	7499.9	7585.9	7496.9	7570.5	7499.9	7576.7	7503.0	7447.8	7358.8	7239.1	7039.6
7.5°	7171.6	7088.7	7113.3	7205.4	7220.7	7392.5	7300.5	7371.1	7334.2	7097.9	6824.8
10°	6511.8	6493.4	6616.2	6738.9	6889.3	7073.4	7144.0	7104.1	7076.5	6987.5	6622.3
12.5°	6005.5	6057.6	6054.6	6257.1	6511.8	6616.2	6800.3	6794.1	6947.6	6781.9	6432.0
15°	5523.7	5551.3	5680.2	5806.0	6088.3	6386.0	6613.1	6643.8	6827.9	6711.3	6284.7
17.5°	5229.1	5189.2	5290.5	5440.8	5729.3	6119.0	6370.7	6444.3	6695.9	6671.4	6116.0
20°	4937.6	4937.6	5020.4	5198.4	5462.3	5901.1	6349.2	6327.7	6695.9	6625.4	5934.9
22.5°	4839.4	4888.5	4909.9	5045.0	5358.0	5735.4	6257.1	6297.0	6748.1	6603.9	5855.1
25°	4974.4	4909.9	4916.1	5023.5	5318.1	5655.6	6189.6	6278.6	6843.2	6711.3	5790.7
27.5°	4995.9	5060.3	5078.7	5152.4	5348.8	5680.2	6358.4	6539.4	7079.5	6962.9	5809.1
30°	5183.1	5247.5	5244.4	5370.3	5505.3	5879.7	6735.8	6772.7	7567.5	7279.0	5922.6
32.5°	5410.2	5477.7	5499.1	5646.4	5753.8	6244.8	7196.1	7291.3	8037.0	7776.1	6220.3
35°	5692.5	5667.9	5766.1	5913.4	6143.6	6778.8	7757.7	7917.3	8543.3	8420.6	6527.2
37.5°	6045.4	6014.7	6109.8	6349.2	6662.2	7411.0	8276.3	8380.7	8911.6	9019.0	7094.9
40°	6293.9	6306.2	6594.7	6916.9	7248.3	8012.4	8604.7	8706.0	9169.3	9577.5	7524.5
42.5°	6708.2	6784.9	7131.7	7524.5	7871.3	8463.5	8871.7	8969.9	9289.0	10025.5	8104.5
45°	7309.7	7275.9	7659.5	8098.3	8481.9	8933.0	9187.7	9154.0	9359.6	10470.5	8469.7
47.5°	8083.0	8089.1	8343.8	8718.2	9117.2	9341.2	9540.6	9421.0	9506.9	10940.0	8957.6
50°	8610.8	8656.9	8862.5	9246.0	9445.5	9789.2	10043.9	9970.3	9942.6	11222.3	9264.5
52.5°	8745.8	8883.9	8994.4	9473.1	9939.6	10482.7	10808.0	10964.5	10473.5	11317.4	9654.2
55°	7727.0	7849.8	8239.5	8896.2	10126.8	11581.3	12029.4	12032.4	11167.1	11740.9	9927.3
57.5°	6177.3	5928.8	6168.1	6864.7	8561.7	11535.3	12624.7	12480.5	11513.8	11492.4	9691.0
60°	4271.7	4210.3	4225.6	4501.8	5925.7	9175.5	11249.9	11437.1	10602.4	9961.1	7671.8
62.5°	3384.8	3332.6	3265.1	3234.4	3679.4	5717.0	7935.7	8199.6	7414.0	6459.7	4547.8
65°	2651.4	2620.7	2629.9	2752.6	2749.6	3243.6	4339.2	4231.8	3387.9	2504.1	1430.0
67.5°	1789.1	1835.1	1871.9	2243.2	2433.5	2258.6	2095.9	2034.6	1101.7	463.4	316.1
70°	1006.5	1012.7	1052.6	1402.4	1847.4	1752.2	1445.4	1445.4	549.3	168.8	181.1
72.5°	549.3	530.9	494.1	604.5	822.4	834.7	644.4	561.6	162.6	110.5	101.3
75°	267.0	263.9	227.1	187.2	178.0	147.3	113.5	104.3	73.6	70.6	61.4
77.5°	55.2	52.2	27.6	27.6	30.7	33.8	43.0	43.0	52.2	52.2	43.0
80°	0.0	0.0	3.1	12.3	21.5	30.7	36.8	36.8	43.0	43.0	33.8
82.5°	0.0	0.0	3.1	9.2	18.4	27.6	33.8	36.8	43.0	46.0	36.8
85°	0.0	0.0	0.0	6.1	15.3	21.5	18.4	18.4	15.3	12.3	6.1
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	7269.8	7269.8	7269.8	7269.8	7269.8	7269.8	7269.8	7269.8	7269.8	7269.8	7269.8
2.5°	7162.4	7156.3	7015.1	6935.3	6791.1	6665.3	6564.0	6490.3	6490.3	6444.3	6401.3
5°	6959.9	6907.7	6607.0	6413.6	6140.5	5938.0	5799.9	5692.5	5523.7	5569.7	5388.7
7.5°	6708.2	6576.3	6177.3	5882.7	5505.3	5216.8	4922.2	4661.4	4409.7	4296.2	4357.6
10°	6438.2	6208.0	5671.0	5204.5	4735.0	4207.2	3863.5	3446.2	3188.4	3173.1	3105.5
12.5°	6152.8	5891.9	5238.3	4593.9	3977.1	3341.8	2817.1	2427.4	2252.4	2059.1	2095.9
15°	5938.0	5551.3	4756.5	3980.1	3160.8	2519.4	1991.6	1690.9	1525.2	1479.1	1463.8
17.5°	5704.7	5290.5	4265.5	3326.5	2479.5	1813.6	1433.1	1288.9	1224.4	1224.4	1215.2
20°	5462.3	4995.9	3777.6	2718.9	1859.6	1353.3	1147.7	1101.7	1098.6	1095.5	1095.5
22.5°	5302.7	4658.3	3335.7	2160.4	1402.4	1083.3	997.3	978.9	991.2	1028.0	1028.0
25°	5134.0	4333.0	2847.8	1666.3	1086.3	929.8	880.7	893.0	923.7	957.4	945.2
27.5°	4962.1	4121.3	2387.5	1307.3	889.9	813.2	794.8	822.4	856.2	886.9	877.7
30°	4922.2	3894.2	1951.7	991.2	764.1	708.9	721.1	745.7	779.5	791.7	804.0
32.5°	4983.6	3716.2	1598.8	813.2	665.9	650.6	650.6	662.8	684.3	711.9	702.7
35°	5158.5	3615.0	1264.3	705.8	610.7	595.3	592.3	604.5	616.8	626.0	616.8
37.5°	5425.5	3535.2	1034.2	626.0	573.9	549.3	543.2	540.1	552.4	555.4	561.6
40°	5766.1	3578.1	877.7	576.9	537.0	509.4	491.0	491.0	491.0	500.2	503.3
42.5°	6134.4	3636.4	758.0	549.3	503.3	469.5	451.1	445.0	451.1	463.4	460.3
45°	6521.0	3750.0	681.3	506.3	472.6	429.6	405.1	398.9	414.3	438.8	435.8
47.5°	6883.1	3912.6	622.9	478.7	441.9	402.0	371.3	365.2	392.8	426.6	429.6
50°	7245.2	4194.9	601.5	457.2	420.4	374.4	346.8	340.6	371.3	414.3	423.5
52.5°	7662.6	4498.7	586.1	429.6	395.9	352.9	322.2	316.1	349.8	405.1	408.1
55°	7935.7	4756.5	573.9	380.5	349.8	319.1	294.6	291.5	328.4	377.5	389.7
57.5°	7616.6	4397.5	530.9	331.4	297.7	282.3	260.8	260.8	291.5	337.6	346.8
60°	5775.3	2893.8	377.5	267.0	251.6	242.4	233.2	233.2	257.8	291.5	294.6
62.5°	3381.7	1558.9	242.4	214.8	214.8	205.6	190.3	190.3	214.8	233.2	236.3
65°	1003.5	500.2	196.4	184.1	181.1	165.7	150.4	147.3	165.7	174.9	171.8
67.5°	288.5	230.2	162.6	153.4	150.4	125.8	116.6	113.5	116.6	110.5	107.4
70°	171.8	156.5	125.8	128.9	113.5	92.1	82.9	79.8	73.6	64.4	58.3
72.5°	95.1	95.1	92.1	98.2	79.8	61.4	52.2	43.0	33.8	27.6	24.5
75°	58.3	61.4	64.4	67.5	52.2	39.9	33.8	21.5	12.3	6.1	6.1
77.5°	39.9	43.0	46.0	49.1	43.0	36.8	27.6	15.3	3.1	0.0	0.0
80°	30.7	33.8	39.9	43.0	46.0	49.1	36.8	15.3	3.1	0.0	0.0
82.5°	33.8	36.8	46.0	43.0	43.0	43.0	33.8	15.3	3.1	0.0	0.0
85°	6.1	9.2	15.3	15.3	21.5	27.6	21.5	6.1	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)